

Gulf of Mexico

Infrastructure

- 21 ADS-B ground radio stations
 - Installed on oil platforms and along the shore
- 35 new weather stations
- 10 existing VHF communication stations
- 9 new VHF communication stations

Service Volumes (Communications and Surveillance)

- Low altitude en route service volume over oil platforms
 - Floor: 1,500 ft. mean sea level; ceiling: 60,000 ft
- High altitude en route service volume
 - Floor: 28,000 ft. mean sea level; ceiling: 60,000 ft

Services

- Air traffic control separation services
 - ADS-B / ADS-R for low altitude up to 24,000 ft.
 - ADS-B 1090-ES only for high altitude above 24,000 ft.
- VHF voice communications (ground to air)
- Automated Weather Observation Services
- Flight Information Broadcast Services (FIS-B)

Interface Protocols

- Common Digitizer-2 as a virtual radar for integration with legacy automation
- Asterix Category 33 for position data report and Asterix Category 023 service status reports

Service Delivery

- Primary service delivery point: HOST automation system at Houston Center (future compatible with ERAM)
- Other service delivery point:
 - Surveillance and Broadcast Services monitor receives service status reports and equipment status reports, as well as ADS-B and FIS-B data
 - FAA monitoring takes place at the William J. Hughes Technical Center and the Aeronautical Center
 - Service certification is at the service delivery point for each automation platform

Applications

- Air traffic control surveillance
- · Weather reporting for instrument flight rules flights
- Voice communications (controller / pilot)
- Enhanced visual acquisition
- Weather and NAS situational awareness

Benefits

- High altitude
 - Increased capacity
 - Optimal routing
- Low altitude
 - Increased capacity
 - Reduction in weather-related accidents
 - Improved search and rescue

Schedule

Initial Operating Capability (IOC) – Completed December 2009

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